



OIPE

ENTERED

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/051,618A

DATE: 09/11/2002 TIME: 10:31:46

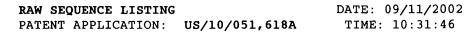
5

Input Set : A:\seq listing.txt

Output Set: N:\CRF4\09112002\J051618A.raw

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3 <110> APPLICANT: Herath, Herath Mudiyanselage
             Athula Chandrasiri
             Parekh, Rajesh Bhikhu
             Patel, Thakorhhai Parshotambhai
             Rohlff, Christian
     9 <120> TITLE OF INVENTION: DPI-6, A PUTATIVE THERAPEUTIC TARGET AND BIOMARKER IN
NEUROPSYCHIATRIC AND
           NEUROLOGICAL DISORDERS
     10
     12 <130> FILE REFERENCE: 2543-1-008/PCT US
     14 <140> CURRENT APPLICATION NUMBER: US 10/051,618A
     15 <141> CURRENT FILING DATE: 2001-10-24
     17 <150> PRIOR APPLICATION NUMBER: GB 0004412.3
     18 <151> PRIOR FILING DATE: 2000-02-24
     20 <150> PRIOR APPLICATION NUMBER: GB 0004415.6
     21 <151> PRIOR FILING DATE: 2000-02-24
     23 <150> PRIOR APPLICATION NUMBER: GB 0006285.2
     24 <151> PRIOR FILING DATE: 2000-03-15
     26 <150> PRIOR APPLICATION NUMBER: GB 0028734.2
     27 <151> PRIOR FILING DATE: 2000-11-24
     29 <150> PRIOR APPLICATION NUMBER: US 09/724,391
     30 <151> PRIOR FILING DATE: 2000-11-28
     32 <150> PRIOR APPLICATION NUMBER: US 09/750,395
     33 <151> PRIOR FILING DATE: 2000-11-28
     35 <150> PRIOR APPLICATION NUMBER: GB 0030050.9
     36 <151> PRIOR FILING DATE: 2000-12-08
     38 <150> PRIOR APPLICATION NUMBER: US 60/254,830
     39 <151> PRIOR FILING DATE: 2000-12-12
     41 <160> NUMBER OF SEQ ID NOS: 5
     43 <170> SOFTWARE: PatentIn version 3.0
     45 <210> SEQ ID NO: 1
     46 <211> LENGTH: 2479
     47 <212> TYPE: DNA
     48 <213> ORGANISM: Homo sapiens
W--> 49 <220> FEATURE:
     50 <221> NAME/KEY: misc_feature
     51 <222> LOCATION: (1146)..(1146)
     52 <223> OTHER INFORMATION: n=g or a or t or c at position 1146
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     55 <221> NAME/KEY: CDS
     56 <222> LOCATION: (38)..(1090)
     58 <400> SEQUENCE: 1
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                                                  Met Gln Arg Leu Gly Ala
     60
```

61



Input Set : A:\seq listing.txt
Output Set: N:\CRF4\09112002\J051618A.raw

				tgc													103
64 65	Thr	Leu	Leu	Cys 10	Leu	Leu	Leu	Ala	Ala 15	Ala	Val	Pro	Thr	Ala 20	Pro	Ala	
	CCC	act	cca	acg	aca	acc	t.ca	act.		atc	ааσ	ccc	aac		act	ctc	151
				Thr													
69			25					30			1		35				
71	agc	tac	ccg	cag	gag	gag	gcc	acc	ctc	aat	gag	atg	ttc	cgc	gag	gtt	199
72	Ser	Tyr	Pro	Gln	Glu	Glu	Ala	Thr	Leu	Asn	Glu	Met	Phe	Arg	Glu	Val	
73		40					45					50					
	-	_	_	atg		_	_	_			_	_	_			_	247
		GLU	Leu	Met		ASP 60	Tnr	GIN	HIS	гàг	ьеи 65	Arg	ser	Ата	vaı	70	
77 70		a t or	a a a	gca			act	act	act	222	_	toa	tca	α a a	ata		295
		_		Ala	-	-	-	-	-		_			-			233
81	Giu	MCC	Olu	2114	75	O.L.u	mu	mu	mu	80	mu	JCI	UCI	Olu	85	non	
	ctq	qca	aac	tta		ccc	agc	tat	cac		qaq	acc	aac	aca		acq	343
	_	_		Leu			_								-	_	
85				90				_	95					100	_		
				aat													391
88	Lys	Val	Gly	Asn	Asn	Thr	Ile	His	Val	His	Arg	Glu	Ile	His	Lys	Ile	
89			105					110					115				
				cag				-	-					_			439
	Thr	120	Asn	Gln	Thr	GTA	125	мет	val	Pne	ser	130	Thr	vaı	тте	Thr	
93 95	tet		ααa	gac	maa	αaa		ana	agg	age	cac		tac	atc	atc	gac	487
			-	Asp													407
	135		1			140	1	5	5		145		-1-			150	
99	gag	gac	tgt	ggg	ccc	agc	atg	tac	tgc	cag	ttt	gcc	agc	ttc	cag	tac	535
100	Glu	Asp	Суз	Gly	Pro	Ser	Met	: Туг	Суя	Gln	Phe	Ala	Ser	Phe	Gln	Tyr	
101					155					160					165		
																agt	583
		Cys	Glr		_	Arg	l GTA	Gir	_		. Leu	Суя	Thr	_	_	Ser	
105		+ ~ ~	. + ~+	170		020	r ata	+ ~+	175				. + ~ ~	180		atg	631
		_	_		_	_	_	_	_				_			Met	031
109		. Cyr	185	_	пор	011	. 100	190		. +	011	11.1.	195			, 1100	
		acc			aqc	aat	. ggg			tqt	gac	aac			qac	tgc:	679
																Cys	
113		200)				205	,				210)				
				, ctg													727
			Gly	/ Leu	Cys	_		Phe	Gln	Arg	_		ı Leu	Phe	Pro	Val	
	215					220					225					230	
																agc	775
120		Thi	Pro	ь Leu	235	vaı	. GIU	GIY	Glu	. Leu 240		HIS	s Asp	Pro	245	Ser	
		ctt	cto	r dad		ato	acc	tan	r dad			cct	· dat	aaa		ttg	823
																Leu	020
125	-			250					255				r	260			
		cga	tgo	cct	. tgt	gcc	agt	ggc	cto	cto	tgc	cag	ccc	cac	ago	cac	871
		_	_					-			-	_					





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	131	agc	ctg	gtg	tat	gtg	tgc	aag	ccg	acc	ttc	gtg	ggg	agc	cgt	gac	caa	919
	132	Ser	Leu	Val	Tyr	Val	Cys	Lys	Pro	Thr	Phe	Val	Gly	Ser	Arg	Asp	Gln	
	133		280		-		-	285					290		_	_		
		αat		σασ	atc	cta	cta	ccc	aga	σασ	atc	ccc	gat	σασ	t.a.t.	αaa	at.t.	967
									Arg									
	137	-	GIY	Olu	110	LCu	300	110	**** 9	Olu	14.1.	305	5	014	- 1 -	O L u	310	
			200	++-	2+4	~~~		ata	cgc	a a a	a = a		α 2 α	424	ata	a a a		1015
																		1013
		СТА	ser	Pne	met		GIU	vaı	Arg	GTII		Leu	GIU	ASP	ьeu		Arg	
	141					315					320					325		1000
									ctg									1063
		Ser	Leu	Thr		Glu	Met	Ala	Leu	_	Glu	Pro	Ala	Ala		Ala	Ala	
	145				330					335					340			
	147	gca	ctg	ctg	gga	ggg	gaa	gag	att	tag	atct	ggad	cca q	gct	gtgg	gt		1110
	148	Ala	Leu	Leu	Gly	Gly	Glu	Glu	Ile									
	149			345					350									
W>	151	agat	tgtgd	caa 1	tagaa	aatag	go ta	aatti	tattt	. ccc	cang	gtgt	gtg	ttta	aag (cgtgg	ggctga	1170
	153	ccad	gett	ct	tccta	acato	et to	cttc	ccagt	aaq	tttc	ccc	tct	gctt	ga (cagca	atgagg	1230
	155	tgti	tgtgo	cat	ttgti	tcago	ct co	ccca	aggct	. gtt	ctc	cagg	ctto	cacac	tc :	tggto	gcttgg	1290
																	tggct	1350
		-, -	_			-		-		_	_			-	_		tgittg	1410
		-	-			-	_	-			_				-		gtggag	1470
																	ccacg	1530
																	gttctg	1590
																	tctgtg	1650
				-		_	_			_	_	-	-	-			gagggg	1710
																	cttgcc	1770
																	ctcagt	1830
			-		-		_	_		_		_	-			_	ggaagg	1890
																	tctcac	1950
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																	agacaa	2250
									_	_		_					taatat	
																	atggac	2310
		_	_		-				-		-		-	-		-	gtataa	2370
		_	-		_	-			_			_	_		_	aaato	caagca	2430
						-	aa aa	aaaaa	aaaaa	aaa	laaaa	aaaa	aaaa	aaaaa	aa			2479
					D NO													
					H: 35	50												
			?> T															
							sap	piens	3									
					NCE:													
	205	Met	Gln	Arg	Leu	Gly	Ala	Thr	Leu	Leu	Cys	Leu	Leu	Leu	Ala	Ala	Ala	
	206					5					10					15		
	208	Val	Pro	Thr	Ala	Pro	Ala	Pro	Ala	Pro	Thr	Ala	Thr	Ser	Ala	Pro	Val	
	209				20					25					30			

0/11/00

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			_		_											
	Lys	Pro	_	Pro	Ala	Leu	Ser	_	Pro	Gln	GLu	GLu		Thr	Leu	Asn
212			35					40			_		45	_		
214	Glu	Met	Phe	Arg	Glu	Val		Glu	Leu	Met	Glu		Thr	Gln	His	Lys
215		50					55					60				
217	Leu	Arg	Ser	Ala	Val	Glu	Glu	Met	Glu	Ala	Glu	Glu	Ala	Ala	Ala	Lys
218						70					75					80
220	Ala	Ser	Ser	Glu	Val	Asn	Leu	Ala	Asn	Leu	Pro	Pro	Ser	Tyr	His	Asn
221					85					90					95	
223	Glu	Thr	Asn	Thr	Asp	Thr	Lys	Val	Gly	Asn	Asn	Thr	Ile	His	Val	His
224				100					105					110		
226	Arg	Glu	Ile	His	Lys	Ile	Thr	Asn	Asn	Gln	Thr	Gly	Gln	Met	Val	Phe
227			115					120					125			
229	Ser	Glu	Thr	Val	Ile	Thr	Ser	Val	Gly	Asp	Glu	Glu	Gly	Arg	Arg	Ser
230		130					135		-	_		140	_	-	_	
232	His	Glu	Cvs	Ile	Ile	Asp	Glu	Asp	Cys	Gly	Pro	Ser	Met	Tyr	Cys	Gln
	145		•			150		•	•	•	155			•	-	160
		Ala	Ser	Phe	Gln	Tvr	Thr	Cvs	Gln	Pro	Cvs	Ara	Glv	Gln	Ara	Met
236					165	-1-		-1-		170	-1-	5	1		175	
	Leu	Cvs	Thr	Arσ		Ser	Glu	Cvs	Cvs	Glv	Asp	Gln	Leu	Cys	Val	Trp
239		010	,	180				012	185	0-1	E			190		
	Glv	His	Cvs		Lvs	Met	Ala	Thr		Glv	Ser	Asn	Glv	Thr	Tle	Cvs
242	0.21		195		-10			200		0-1			205			0,72
	Asp	Asn		Ara	Asp	Cvs	Gln		Glv	Len	Cvs	Cvs		Phe	Gln	Arσ
245	1102	210	0111	9	nop.	0,0	215	110	0-1	Leu	C _I D	220		1110	01	9
	Glv		I.e.i	Dhe	Pro	Val		Thr	Pro	T.e.11	Pro		Glu	Gly	Glu	T.e.11
	225	пси	пси	1110	110	230	Cyb	1111	110	пси	235	vul	Olu	OLY	Olu	240
		Uic	Δen	Dro	Δla		Δνα	T.Q11	T.Q11	Δen		Tla	Thr	Trp	Glu	
251	Cys	штэ	тэр	110	245	DCI	Arg	пси	пси	250	пец	116	1111	115	255	Бец
	Clu	Dro	λan	C137		Lou	λαη	λνα	Cvc		Cvc	λla	Cor	Gly		Lou
254	GIU	PIO	кэр	260	міа	пеп	usb	AIY	265	FIU	Cys	AIG	Ser	270	пеп	цеа
	Cvc	Cln	Dro		Cor	Uic	cor	LOU		Фттт	W≃ 1	Cvc	T v.c	Pro	mh r	Dho
257	СуБ	GTII	275	птэ	ser	птэ	ser	280	vai	тут	vaı	СуБ	285	PIO	1111	Pile
	17.0.7	C1		7 20 00	7 ~~	C1 5	7 an		C1	т1.	T 011	T 011		7 ~~	C1	17 n 1
260	Val	290	ser	Arg	ASP	GIII	295	СТУ	Gru	ire	Leu		PIO	Arg	GIU	vaı
	D		a 1	m	a1	171		0	nha	Wat	a 1	300	37 n 3	7	a1	a 1
		ASP	GIU	TAT	GIU		СТУ	ser	Phe	мес		GIU	Vai	Arg	GIII	
	305	a 1		.	a 1	310	0	T	ml	a 1	315	37-4		T	41	320
	Leu	GIU	Asp	Leu		Arg	ser	Leu	THE		GIU	мес	Ald	Leu		GIU
266	5			. 1 .	325		. 1 .	.	T	330	a 1	a 1	a 1	-1 -	335	
	Pro	Ala	Ата		Ата	Ата	Ата	Leu		GTA	GTA	GIU	GIU			
269	.016			340	_				345					350		
)> SI														
		L> LI			j											
		2> TY														
		3> OF				sar	piens	3								
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	_	Gln	Asp	GTA		Ile	Leu	Leu	Pro							
279		_			5					10						
)> SE														
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DATE: 09/11/2002 TIME: 10:31:46

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Output Set: N:\CRF4\09112002\J051618A.raw

283 <212> TYPE: PRT

284 <213> ORGANISM: Homo sapiens

W--> 285 <220> FEATURE:

286 <221> NAME/KEY: MOD_RES 287 <222> LOCATION: (3)..(3)

288 <223> OTHER INFORMATION: ASN residue is glycosylated

290 <400> SEQUENCE: 4

292 Val Gly Asn Asn Thr Ile His Val His Arg

93 1 5 10

296 <210> SEQ ID NO: 5

297 <211> LENGTH: 11

298 <212> TYPE: PRT

299 <213> ORGANISM: Homo sapiens

W--> 300 <220> FEATURE:

301 <221> NAME/KEY: MOD_RES 302 <222> LOCATION: (3)..(3)

303 <223> OTHER INFORMATION: ASN residue is glycosylated

305 <400> SEQUENCE: 5

L ES HOLOMONA O SESSIONE PRESCIONS

307 Gly Ser Asn Gly Thr Ile Cys Asp Asn Gln Arg

308 1 5

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/051,618A

DATE: 09/11/2002 TIME: 10:31:47

Input Set : A:\seq listing.txt

Output Set: N:\CRF4\09112002\J051618A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the $\langle 220 \rangle$ to $\langle 223 \rangle$ fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 1146

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 9

110\000000 0 : : 1057 = 1054 (104 :

VERIFICATION SUMMARY

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L:49 M:283 W: Missing Blank Line separator, <220> field identifier L:151 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:1110 L:285 M:283 W: Missing Blank Line separator, <220> field identifier L:300 M:283 W: Missing Blank Line separator, <220> field identifier